

**ABSTRACT OF THE DISCLOSURE**

A technique for an enhanced transaction order queue is disclosed. A transaction order queue is used to prioritize transactions flowing through a bridge. The present technique enhances the transaction order queue by providing logic within a module, facilitating the enqueueing of a plurality of transaction entries within a single device and ensures that PCI/PCI-X ordering rules are not violated. The technique also provides that the logic device within the PCI-X bridges and buses selects and enqueues a single transaction entry from simultaneous multiple transaction entries.